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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/491,867	01/27/2000	Masanobu Funakoshi	35.C14210	9166

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EXAMINER

TO, BAOQUOC N

ART UNIT	PAPER NUMBER
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2172

DATE MAILED: 11/12/2003

13

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/491,867

Applicant(s)

FUNAKOSHI, MASANOBU

Examiner

Baoquoc N To

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-23 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-23 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

DETAILED ACTION

1. Claims 1, 12 and 23 are amended in the amendment filed 10/21/03 and claims 1-23 are pending in this application.

Response to Arguments

2. Applicant's arguments with respect to claims 1, 12 and 23 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-4, 7-11, 12-15 and 18-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ikeda (US. Patent No. 6,564,206) in view of Craver et al. (US. Patent No. 6,556,723).

Regarding on claims 1, 12 and 23, Ikeda teaches an information retrieval system apparatus comprising:

Calculation (similarity calculation) means for calculating the degree of coincidence between a search condition being input and each information to be retrieved in said database (col. 6, lines 57-58);

Determination means for determining, on the results of retrieval respectively for the plural information to be retrieved of a high degree of coincidence (when the condition is fully satisfied is express by similarity) (col. 6, lines 57-66), the output feature amount for each results of retrieval according to each degree of coincidence (that is images which the query condition to satisfy levels are displayed at positions closer to the center of the search result display 703) (col. 7, lines 1-5);

Ikeda does not explicitly teach output means for outputting said results of retrieval based on each output feature amount, such that information having a higher degree of coincidence is output in a larger size at a position closer to a center of an output. However, Ikeda teaches, "that is, images which the query condition to satisfy higher levels are displayed at positions closer to the center of the search result display region 703, and images which the query condition to satisfy lower levels are displayed at positions farther from the center of the search result display region 703" (col. 7, lines 1-7). This teaches displaying near the center if the images are more match and farther away when they are less match. The lack of teaching from Ikeda is the more matches images are displayed larger. On the other hand, Craver teaches, "images further away from the center, or target image, are displayed with a smaller size to denote greater dissimilarity from those images closer to the center" (col. 11, lines 41-44). This teaches the images are displayed farther away from the center is smaller or via versa. Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention was made to modify displaying smaller size from the center based on the similarity of the images of Craver into Ikeda in order to provide the larger displayed

image result at a position closer to the center to allow the users to visualize the retrieved results.

Regarding on claims 2 and 13, Ikeda teaches database stores language information in respective correspondence with each of said information to be retrieved (images information) (col. 3, lines 25-30); and

Said calculation means is adapted to execute language analysis of said retrieval condition entered by a natural language, thereby calculating a degree of language coincidence between the result of said language analysis and the language information assigned to each information to be retrieved (col. 3, lines 39-46).

Regarding on claims 3 and 14, Ikeda does not explicitly teach output feature amount is a size of the output, and said determination means is adapted to determine a larger output size for a result of a higher degree of coincidence. However, Ikeda teaches, "that is, images which the query condition to satisfy higher levels are displayed at positions closer to the center of the search result display region 703, and images which the query condition to satisfy lower levels are displayed at positions farther from the center of the search result display region 703" (col. 7, lines 1-7). This teaches displaying near the center if the images are more match and farther away when they are less match. The lack of teaching from Ikeda is the more matches images are displayed larger. On the other hand, Craver teaches, "images further away from the center, or target image, are displayed with a smaller size to denote greater dissimilarity from those

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images closer to the center" (col. 11, lines 41-44). This teaches the images are displayed farther away from the center is smaller or via versa. Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention was made to modify displaying smaller size from the center based on the similarity of the images in Craver into Ikeda in order to provide the larger displayed image result at a position closer to the center to allow the users to visualize the retrieved results.

Regarding on claims 4 and 15, Ikeda teaches the retrieval result is an image except for output size is a size of the image. However, Ikeda teaches, "that is, images which the query condition to satisfy higher levels are displayed at positions closer to the center of the search result display region 703, and images which the query condition to satisfy lower levels are displayed at positions farther from the center of the search result display region 703" (col. 7, lines 1-7). This teaches displaying near the center if the images are more match and farther away when they are less match. The lack of teaching from Ikeda is the more matches images are displayed larger. On the other hand, Craver teaches, "images further away from the center, or target image, are displayed with a smaller size to denote greater dissimilarity from those images closer to the center" (col. 11, lines 41-44). This teaches the images are displayed farther away from the center is smaller or via versa. Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention was made to modify displaying smaller size from the center based on the similarity of the images in Craver into Ikeda in

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order to provide the larger displayed image result at a position closer to the center to allow the users to visualize the retrieved results.

Regarding on claims 7 and 18, Ikeda teaches the retrieval result is an image (thumbnail) or text, and said output feature amount is a display position, and wherein said determines the display position so as to be closer to a specified position for a retrieval result of a higher degree of coincidence (col. 7, lines 1-7).

Regarding on claims 8 and 19, Ikeda teaches specified position is a center of a display area (col. 7, lines 1-7).

Regarding on claims 9 and 20, Ikeda teaches determination means determines a distance from said specified position according to said degree of coincidence and determines the display positions of the retrieval results in positions at said determined distances so as to minimize mutual overlap of the retrieval results (col. 7, lines 1-7).

Regarding on claims 10 and 21, Ikeda teaches determination means determines the output feature amount of each retrieval result for each of the retrieval results corresponding to the information to be retrieved having degrees of coincidence exceeding a predetermined number in a descending order of the degree of coincidence (col. 7, lines 1-7).

Regarding on claims 11 and 22, Ikeda teaches determination means determines the output feature amount of each retrieval result for each of the retrieval results corresponding to the information to be retrieved having degrees of coincidence exceeding a predetermined threshold value (col. 7, lines 1-7).

4. Claims 6 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ikeda (US. Patent No. 6,564,206) in view of Craver et al. (US. Patent No. 6,556,723) and further in view of Miike et al. (US. Patent No. 5,878,414).

Regarding on claims 6 and 17, both Ikeda and Craver do not teach retrieval result is a audio data, and said output size is a loudness thereof. However, Mike teaches, "...the outputs the matching environment information and the related target data as the retrieval result in the visual oriented output method such as the character or icon display, or the audio oriented output method such as speech and artificial sound output" (col. 57, lines 33-37). The method of outputting the retrieve audio data through the speaker and the magnitude of the output size is determined according to the relevance of the retrieval are known in the art. Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention was made to modify the output of the sound in Miike into Ikeda and Craver because utilizing the audio oriented output method would provide the user to determine which of the results are the relevance in according to the magnitude of the sound.

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5. Claims 5 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ikeda (US. Patent No. 6,564,206) in view of Craver et al. (US. Patent No. 6,556,723) and further in view of Soohoo (US. Patent No. 6,292,164).

Regarding on claims 5 and 16, both Ikeda and Craver teach the retrieval result is a text, and said output size is a character size of the text. However, Soohoo teaches, "the computer executable code causes at least some characters from the set of characters being displayed are displayed in a size taller than the characters already accepted and displayed on the display" (col. 2, lines 20-25). This teaches the characters are displayed taller selected by the user. Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention was made to modify display the character taller of Soohoo into both Ikeda and Craver in order to provide the searching system the ability to visually display the relevant retrieved results in the displayed size.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Contact Information

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Baoquoc N. To whose telephone number is (703) 305-1949 or via e-mail BaoquocN.To@uspto.gov. The examiner can normally be reached on Monday-Friday: 8:00 AM – 4:30 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Y. Vu can be reached at (703) 305-4393.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231.

The fax numbers for the organization where this application or proceeding is assigned are as follow:

- (703) 746-7238 [After Final Communication]
- (703) 746-7239 [Official Communication]
- (703) 746-7240 [Non-Official Communication]

Hand-delivered responses should be brought to:


Crystal Park II

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2121 Crystal Drive
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Baoquoc N. To
Nov 04, 2003



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